



US00D399317S

United States Patent [19]
Nenye et al.

[11] **Patent Number:** **Des. 399,317**
[45] **Date of Patent:** ****Oct. 6, 1998**

[54] **SPIROMETRY TUBE AND CONNECTOR ASSEMBLY**

[75] Inventors: **Ari Nenye**, Helsinki; **Kari Lihavainen**, Espoo, both of Finland
[73] Assignee: **Instrumentarium Oy**, Helsinki, Finland
[**] Term: **14 Years**

[21] Appl. No.: **61,368**
[22] Filed: **Oct. 15, 1996**

[30] **Foreign Application Priority Data**
Apr. 15, 1996 [FI] Finland 96/270
Apr. 15, 1996 [FI] Finland 96/271
[51] **LOC (6) Cl.** **24-01**
[52] **U.S. Cl.** **D24/164**
[58] **Field of Search** D24/164; 128/202.27, 128/203.28, 204.18, 205.12, 205.15, 207.14, 203.12

[56] **References Cited**
U.S. PATENT DOCUMENTS
D. 350,394 9/1994 Kazal D24/164
4,870,961 10/1989 Barnard 128/202.27
4,966,141 10/1990 Bacaner et al. 128/207.14
5,398,675 3/1995 Henkin et al. 128/203.12
5,479,920 1/1996 Piper et al. 128/204.18

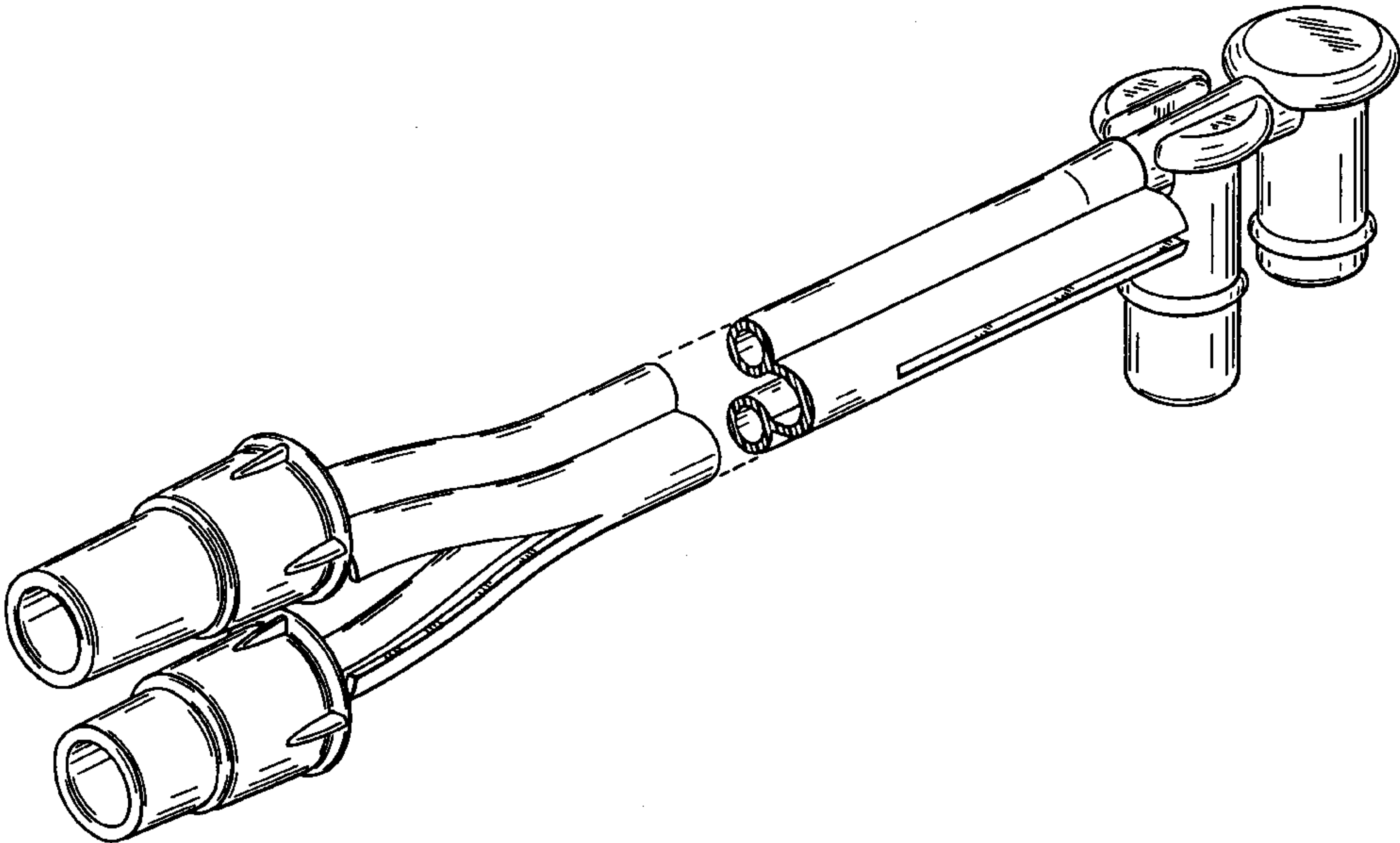
FOREIGN PATENT DOCUMENTS
904928 12/1992 Finland .
Primary Examiner—Stella Reid
Attorney, Agent, or Firm—Andrus, Sceales, Starke & Sawall

[57] **CLAIM**
We claim the ornamental design for spirometry tube and connector assembly, as shown.

DESCRIPTION

FIG. 1 is a perspective view from one side and above showing a spirometry tube and connector assembly incorporating one embodiment of the design of the present invention;
FIG. 2 is a view of one side of the spirometer tube and connector assembly;
FIG. 3 is a view of one end of the spirometry tube and connector assembly;
FIG. 4 is a view of the other end of the spirometry and connector assembly;
FIG. 5 is a view of the other side of the spirometry tube and connector assembly;
FIG. 6 is a top view of the spirometry tube and connector assembly;
FIG. 7 is a bottom view of the spirometry tube and connector assembly;
FIG. 8 is a perspective view from one side and above showing a spirometry tube and connector assembly incorporating another embodiment of the design of the present invention;
FIG. 9 is a view of one side of the spirometry tube and connector assembly;
FIG. 10 is a view one end of the spirometry tube and connector assembly;
FIG. 11 is a view of the other end of the spirometry tube and connector assembly;
FIG. 12 is a view of the other side of the spirometry tube and connector assembly;
FIG. 13 is a top view of the spirometry tube and connector assembly; and,
FIG. 14 is a bottom view of the spirometry tube and connector assembly.
FIGS. 1, 2, 5–9 and 12–14 have been shown broken away for ease of illustration and to show the indeterminate length of the article.

1 Claim, 8 Drawing Sheets



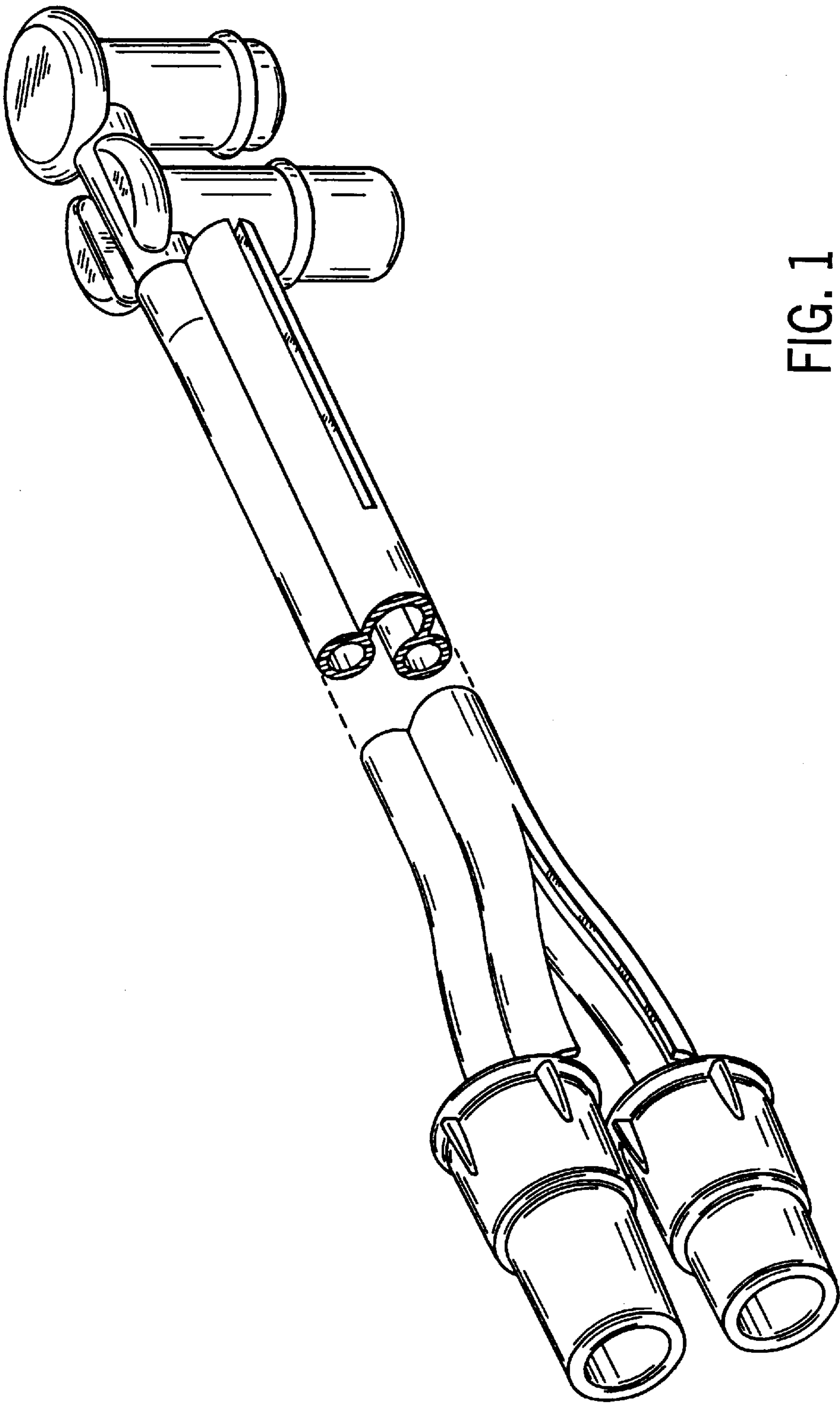


FIG. 1

FIG. 2

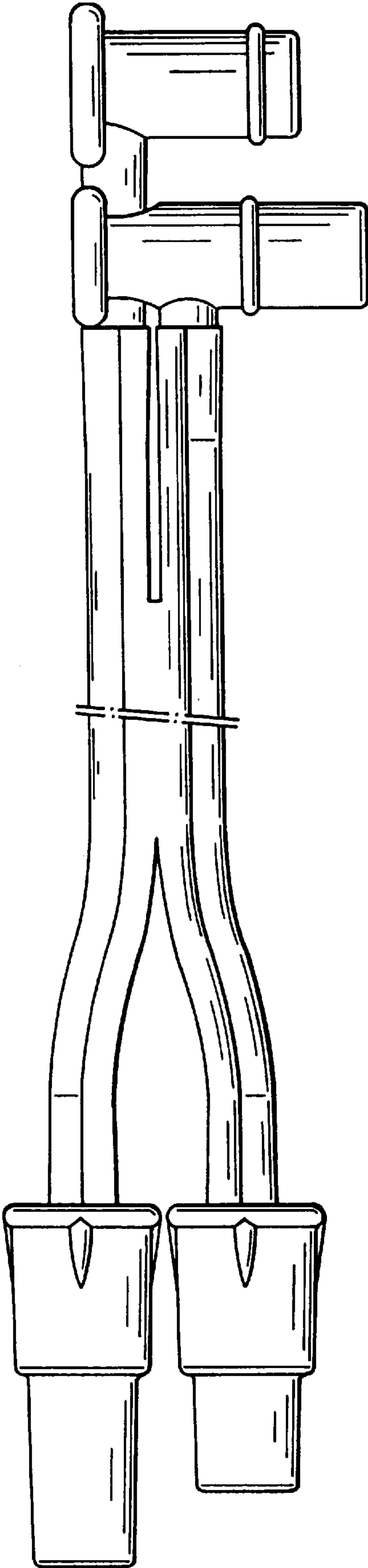


FIG. 4

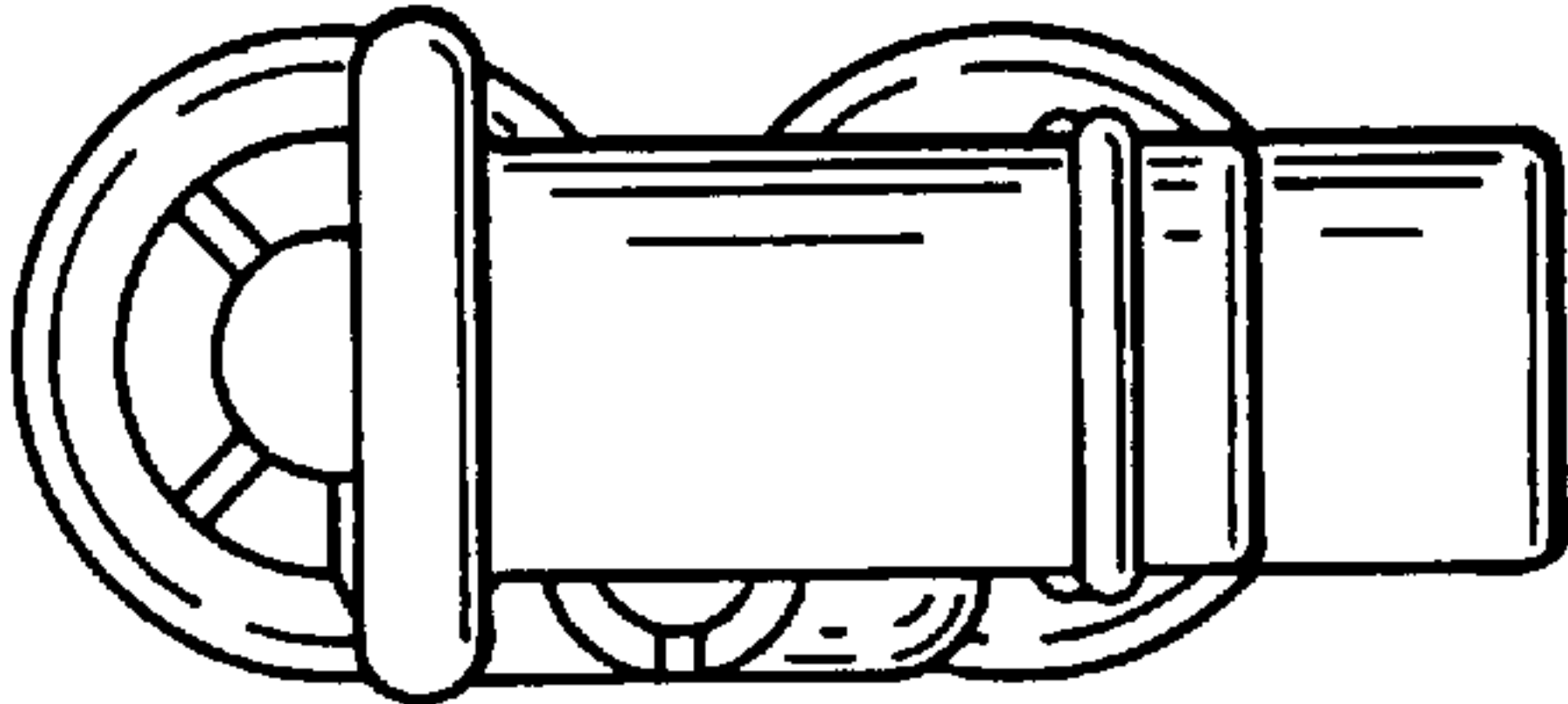


FIG. 3

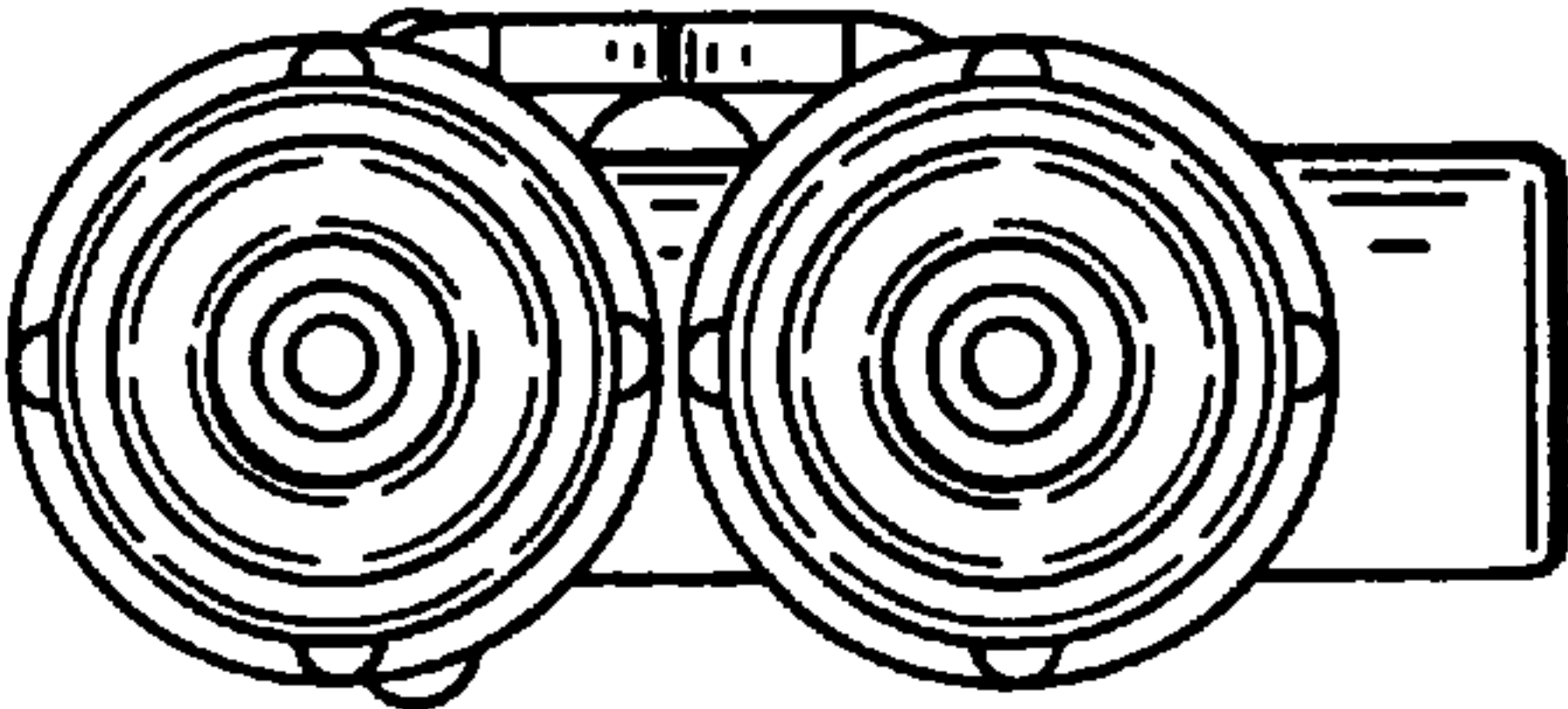


FIG. 5

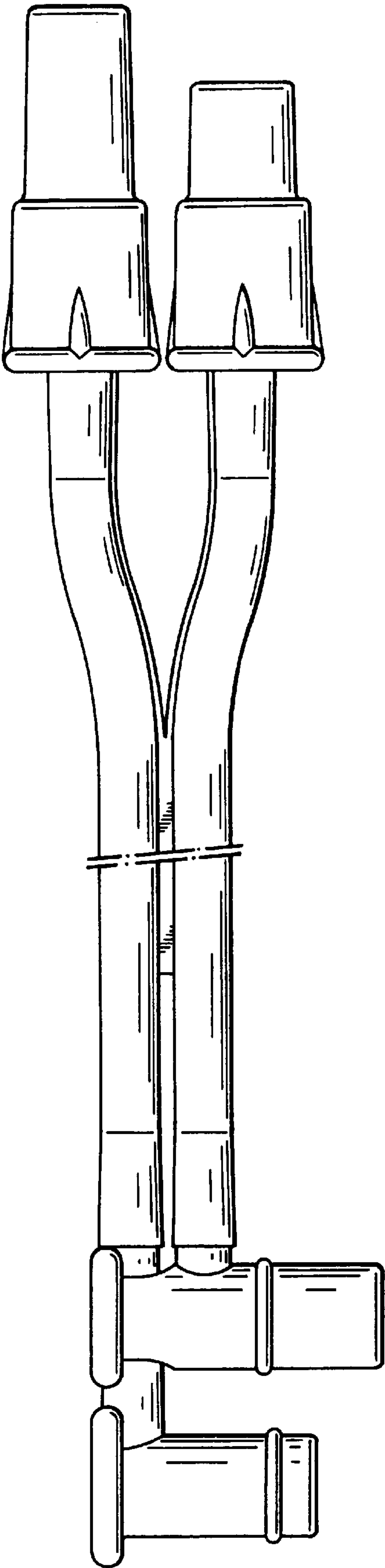


FIG. 6

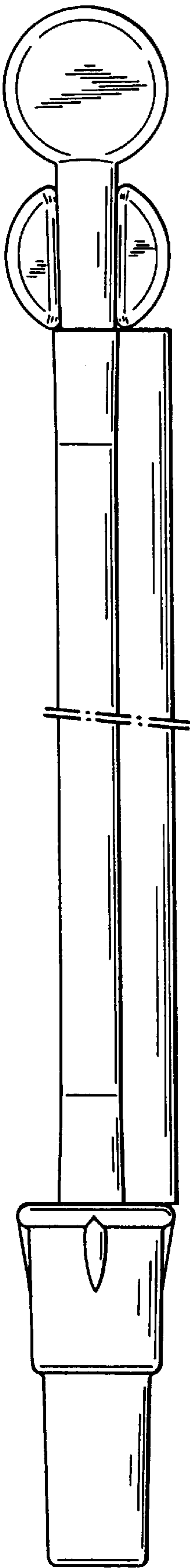
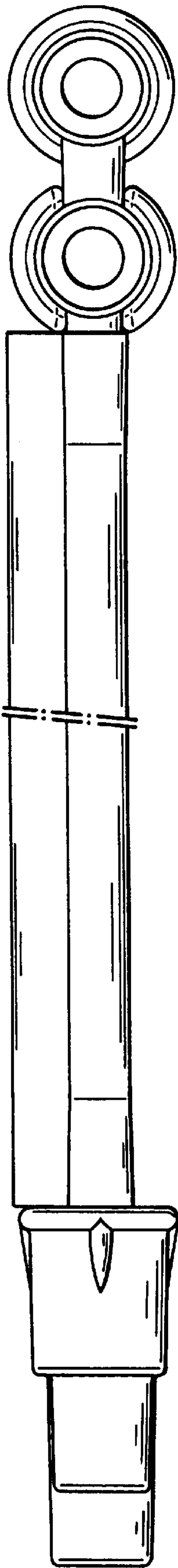


FIG. 7



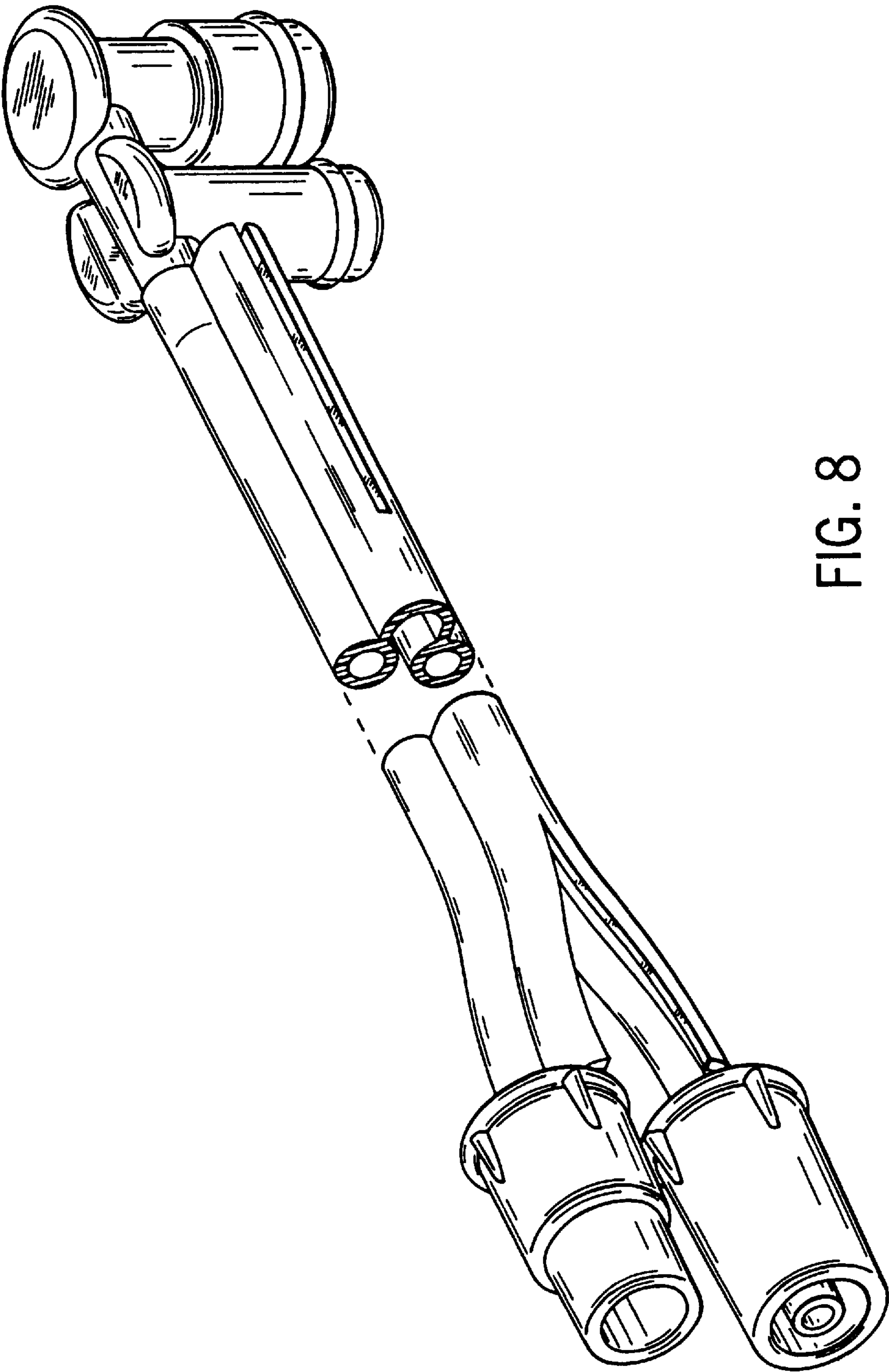


FIG. 8

FIG. 9

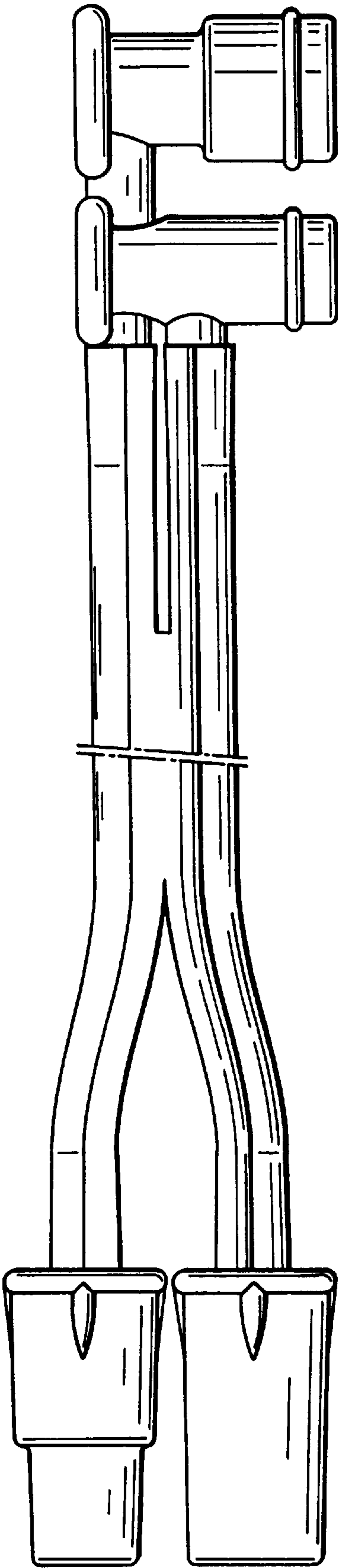


FIG. 11

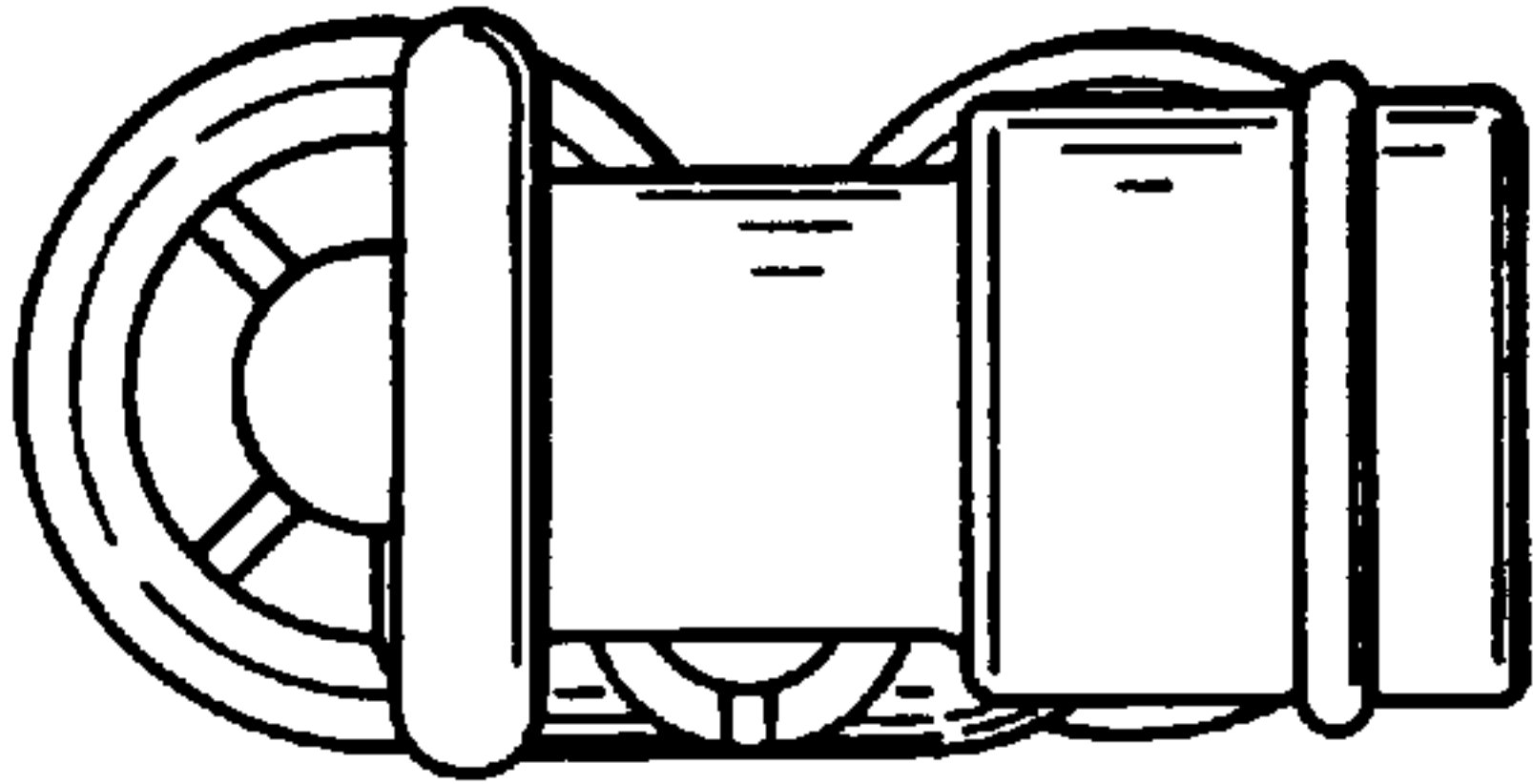


FIG. 10

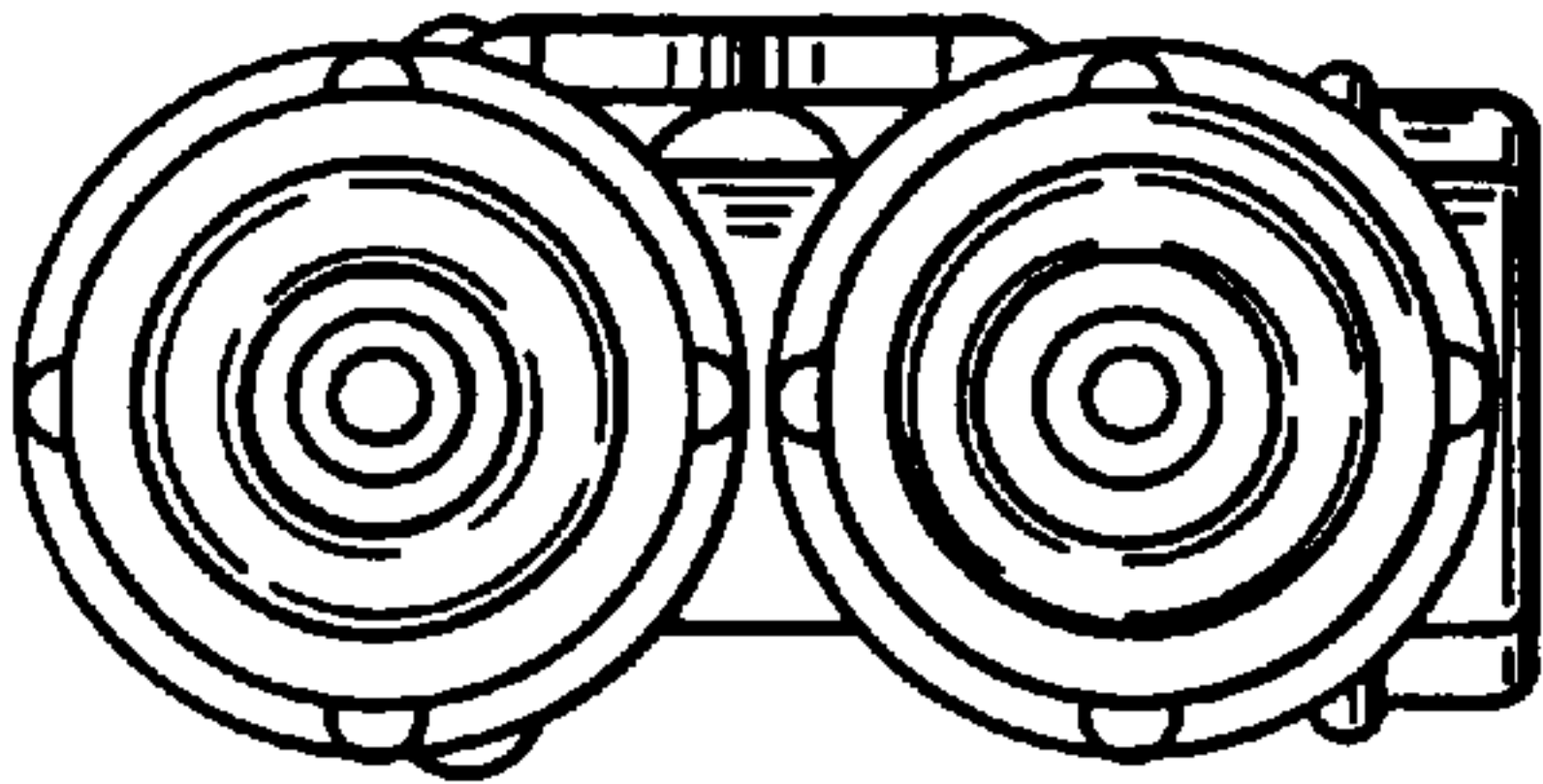


FIG. 12

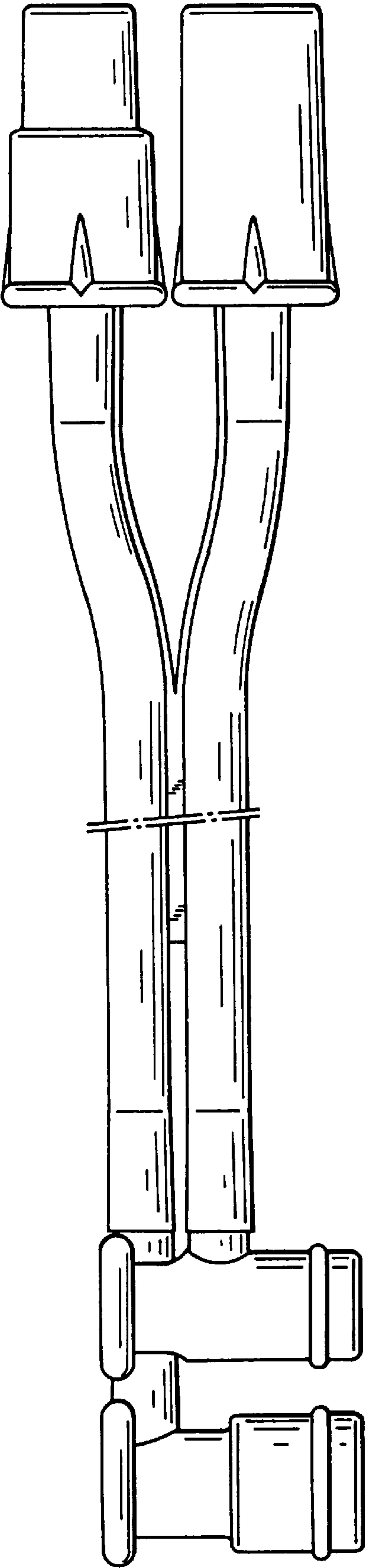


FIG. 13

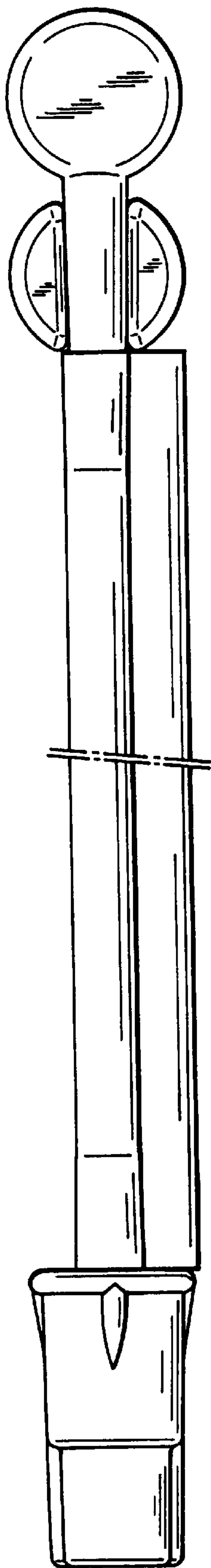


FIG. 14

